AMENDMENTS TO THE CLAIMS:

This listing of the claims will replace all prior versions, and listings, of the claims in this application.

Listing of Claims:

1. (Currently Amended) A method to perform a low latency inter-technology handoff of a mobile node (MN) from a wireless local area network (WLAN) to a cellular network, comprising:

transmitting a message from the MN to the WLAN for use by the cellular network, the message comprising information for use in establishing at least one access bearer with the cellular network for an ongoing packet data session of the MN being conducted through the WLAN; and

responding to the receipt of the message with a Router Advertisement message that is forwarded towards the MN.

- 2. (Previously Presented) A method as in claim 1, where the message is piggybacked on another message.
- 3. (Previously Presented) A method as in claim 1, where the message comprises information expressive of a QoS requirement of at least one ongoing application of the MN.
- 4. (Previously Presented) A method as in claim 1, where the message comprises information expressive of a unique identity of the MN that is recognizable by the cellular network.
- 5. (Previously Presented) A method as in claim 1, where the message comprises information expressive of parameters to facilitate the creation of a Point-to-Point Protocol state in the cellular network.

6. (Previously Presented) A method as in claim 1, where the message comprises information

expressive of parameters to enable establishment of packet filters in the cellular network.

7. (Previously Presented) A method as in claim 1, where the message is piggybacked on a Router

Solicitation message that is sent from an access router (AR) in response to receiving a Proxy

Solicitation Request message from the MN.

8. (Original) A method as in claim 7, where the Router Advertisement is sent to the AR, which in

response sends a Proxy Router Advertisement to the MN.

9. (Original) A method as in claim 8, where the Router Advertisement comprises a challenge for

authentication and authorization purposes.

10. (Original) A method as in claim 8, where the MN responds to the Proxy Router

Advertisement by sending a Registration Request message to the cellular network.

11. (Original) A method as in claim 10, where the Proxy Router Advertisement comprises a

challenge for authentication and authorization purposes, and where the Registration Request

message comprises information for identifying a home Authentication, Authorization,

Accounting (AAA) function of the MN in the cellular network, and a response to the challenge

received in the Proxy Router Advertisement.

12. (Original) A method as in 11, where, in response to receiving the Registration Request

message, a query is sent to the home AAA of the MN.

13. (Original) A method as in claim 12, where the query is sent via a visited AAA either directly

or via at least one intermediate broker AAA.

- 14. (Original) A method as in claim 12, where the query sent to the home AAA comprises information that indicates the challenge sent to the MN, and the response to the challenge received from the MN, for use by the home AAA in authenticating the MN.
- 15. (Original) A method as in claim 14, where the query sent to the home AAA comprises information that indicates the access service requested by the MN.
- 16. (Original) A method as in claim 14, further comprising, in response to successfully authenticating the MN, sending a success indication from the home AAA for authorizing access by the MN.
- 17. (Original) A method as in claim 16, where the success indication further comprises a ticket sent in clear text and in a form encrypted using a shared secret between the home AAA and the MN.
- 18. (Original) A method as in claim 17, where the clear text form of the ticket is stored in a cellular network node and where the encrypted ticket is sent to the MN via the AR.
- 19. (Original) A method as in claim 18, further comprising sending an acknowledgment (ACK) from the MN to the cellular network, the ACK comprising the clear text ticket.
- 20. (Original) A method as in claim 19, in response to receiving the clear text ticket from the MN, further comprising performing access bearer setup in the cellular network for establishing at least one access bearer for the MN.
- 21. (Original) A method as in claim 20, further in response to receiving the clear text ticket from the MN, registering the MN with the HA and, upon receiving a Registration Reply from the HA, forwarding the Registration Reply from the cellular network to the MN upon an established access bearer.

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22. (Original) A method as in claim 17, further comprising generating a session key at the home

AAA as clear text and in an encrypted form, using the shared secret between the MN and the

home AAA, storing the clear text session key in a cellular network node, and forwarding the

encrypted form of the session key to the MN for use by the MN in at least one of authenticating

and encrypting future message transactions with the cellular network.

23. (Previously Presented) A method as in claim 1, where the message is sent by the MN in an

encrypted form using a shared secret between the MN and a home Authentication, Authorization,

Accounting (AAA) function of the MN in the cellular network.

24. (Previously Presented) A method as in claim 1, where communication between the MN and

the cellular network comprises a HI/HACK (Handover Initiate/Handover ACK) message

exchange, and where the message is piggybacked on the HI message.

25. (Previously Presented) A method as in claim 24, where the cellular network responds to a

receipt of the message with a Mobile Node-Foreign Agent (MN-FA) challenge extension that is

piggybacked on the HACK message

26. (Previously Presented) A method as in claim 1, where the MN transmits the message in

response to a change in at least one of WLAN-related signal strength, signal quality and other

information.

27. (Currently Amended) A data communications system comprising a mobile node (MN), a

wireless local area network (WLAN) and a cellular network, further comprising:

a transmitter for transmitting a message from the MN to the cellular network via the WLAN, the

message comprising information for use in establishing access bearers in the cellular network for

an ongoing packet data session of the MN being conducted through the WLAN; and

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a unit to respond to the receipt of the message with a Router Advertisement message that is

forwarded towards the MN.

28. (Previously Presented) A system as in claim 27, where the message is piggybacked on

another message.

29. (Previously Presented) A system as in claim 28, where the message is piggybacked on a

Router Solicitation message that is sent from an access router (AR) in response to receiving a

Proxy Solicitation Request message from the MN.

30. (Previously Presented) A system as in claim 28, where communication between the MN and

the cellular network comprises a HI/HACK (Handover Initiate/Handover ACK) message

exchange, where the message is piggybacked on a HI message, and where the cellular network

responds to a receipt of the message with a Mobile Node-Foreign Agent (MN-FA) challenge

extension that is piggybacked on a HACK message

31. (Previously Presented) A system as in claim 27, where the message comprises information

expressive of at least one of a QoS requirement of at least one ongoing application of the MN, a

unique identity of the MN that is recognizable by the cellular network, parameters to facilitate the

creation of a Point-to-Point Protocol state in the cellular network, and parameters to enable

establishment of packet filters in the cellular network.

32. (Previously Presented) A system as in claim 27, where the message is received by a Packet

Data Support Node (PDSN).

33. (Currently Amended) A computer program embodied on a computer-readable medium for

controlling operation of a mobile node (MN) that is operable with a wireless local area network

(WLAN) and a cellular network, said computer program being responsive to a change in at least

one of received WLAN signal strength and signal quality for transmitting a message from the

MN to the cellular network via the WLAN, the message comprising information for use in

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establishing at least one access bearer in the cellular network for an ongoing packet data session

of the MN being conducted through the WLAN.

34. (Previously Presented) A computer program as in claim 33, where the message is

piggybacked on another message.

35. (Previously Presented) A computer program as in claim 34, where the message is

piggybacked on a Router Solicitation message that is sent from an access router (AR) in response

to receiving a Proxy Solicitation Request message from the MN.

36. (Previously Presented) A computer program as in claim 34, where communication between

the MN and the cellular network comprises a HI/HACK (Handover Initiate/Handover ACK)

message exchange, where the message is piggybacked on a HI message, and where the cellular

network responds to a receipt of the message with a Mobile Node-Foreign Agent (MN-FA)

challenge extension that is piggybacked on a HACK message

37. (Previously Presented) A computer program as in claim 33, where the message comprises

information expressive of at least one of a QoS requirement of at least one ongoing application of

the MN, a unique identity of the MN that is recognizable by the cellular network, parameters to

facilitate the creation of a Point-to-Point Protocol state in the cellular network, and parameters to

enable establishment of packet filters in the cellular network.

38. (Currently Amended) A computer program embodied on a computer-readable medium for

controlling operation of a network node of a cellular network, said computer program being

responsive to a receipt of a message from a mobile node (MN) that is currently wirelessly

coupled to a wireless local area network (WLAN) for initiating the establishment of a cellular

network access bearer for the MN, the message comprising information for use in establishing

the at least one access bearer in the cellular network for an ongoing packet data session of the

MN being conducted through the WLAN.

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39. (Original) A computer program as in claim 38, where the cellular network node comprises a

packet data support node (PDSN).

40. (Original) A computer program as in claim 39, where the cellular network comprises a

cdma2000 cellular network.

41. (Previously Presented) A computer program as in claim 38, where said cellular network node

responds to the receipt of the message by sending a Router Advertisement message that

comprises a Mobile Node-Foreign Agent challenge extension message towards the MN.

42. (Previously Presented) A method as in claim 26, where the other information comprises

geographical coverage information

43. (New) A method to perform a low latency inter-technology handoff of a mobile node (MN)

from a wireless local area network (WLAN) to a cellular network, comprising:

transmitting a message from the MN to the WLAN for use by the cellular network, the message

comprising information for use in establishing at least one access bearer with the cellular network

for an ongoing packet data session of the MN being conducted through the WLAN, the

information comprising information expressive of a QoS requirement of at least one ongoing

application of the MN and information expressive of a unique identity of the MN that is

recognizable by the cellular network; and

responding to the receipt of the message with a response message that is forwarded to the MN,

the response message comprising a challenge for authenticating the MN in the cellular network.